FOR USE ON RICE (DRILLED OR DRY SEEDED) - GROWN IN CALIFORNIA - BROADLEAF WEEDS SUPPRESSED OR CONTROLLED

General Information

IMPORTANT CROP SAFETY INFORMATION

READ BEFORE USING the product

SURMISE may be applied as a burndown treatment prior to planting or prior to emergence of any conventional or transgenic variety of canola, sweet corn, corn, cotton, olive, rice, soybean or sugar beet.

SURMISE may be applied to conventional or other transgenic cotton not tolerant to the active ingredient in SURMISE using a hooded sprayer.

Applications to trees, vines and berries should avoid contact of SURMISE solution, spray, drift or mist with green bark, stems, or foliage, as injury may occur to trees, berries and vines. Only trunks with callused, mature brown bark should be sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers. Contact of SURMISE with parts of trees, berries or vines other than mature brown bark can result in serious damage.

PRODUCT INFORMATION

SURMISE is a water-soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds in trees, vines and berries. SURMISE may be applied for potato vine desiccation. SURMISE may also be applied as a broadcast burndown application before planting or prior to emergence of any conventional or transgenic variety of canola, sweet corn, corn, cotton, olive, rice, soybean or sugar beet.

SURMISE is only foliar-active with little or no activity in soil. Weeds that emerge after application will not be controlled. Apply SURMISE to actively growing weeds as described in the Weed Control Recommendations for Row Crops section to get maximum weed control. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Necrosis of leaves and young shoots occur within 2 to 4
days after application under good growing conditions.

SURMISE is rainfast four (4) hours after application to most weed species; therefore, rainfall within four (4) hours may necessitate retreatment or may result in reduced weed control.

- Applications should be made between dawn and two hours before sunset to avoid the possibility of reduced lambsquarters and velvetleaf control.

- Consult your local Cooperative Extension Service or Albaugh, Inc. Representative for guidelines on the optimum application timing for SURMISE in your region.

- Weed control may be reduced if application is made when heavy dew, fog and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures or extended periods of cloudiness.

- To maximize weed control do not cultivate from 5 days before an application to 7 days after an application.

Integrated Weed Management

The active ingredient in SURMISE is glufosinate-ammonium, which is a glutamine synthetase inhibitor (Group 10). Integrated weed management guidelines promote an economically viable, environmentally sustainable and socially acceptable weed control program regardless of the herbicide(s) used.

The highlights of a successful integrated weed management include:

1. Correctly identify weeds and look for trouble areas within field to identify resistance indicators.

2. Rotate crops.

3. Start the growing season with clean fields.

4. Rotate herbicide modes of action by using multiple modes of action during the growing season and apply no more than two applications of a single herbicide mode of action to the same field in a two-year period. One method to accomplish this is to rotate herbicide tolerant trait systems.

5. Apply listed rates of herbicides to actively growing weeds at the correct time with
the right application.

6. Control any weeds that may have escaped the herbicide application.

7. Thoroughly clean field equipment between fields.

Contact your local agronomic advisor for more specific information on integrated weed management for your area.

APPLICATION AND MIXING PROCEDURES

Do not use flood jet nozzles, controlled droplet application equipment, or air assisted spray equipment. Uniform, thorough spray coverage is important to achieve consistent weed control.

Ground Application

Refer to the Rate Tables for proper application rates. DO NOT apply when winds are gusty or when conditions will favor movement of spray particles off the desired spray target. To avoid drift and ensure consistent weed control, apply SURMISE with the spray boom as low as possible while maintaining a uniform spray pattern. SURMISE should be applied broadcast in a minimum of 10 gallons of water per acre using a minimum spray pressure of 40 psi and a maximum ground speed of 10 mph. The use of 80 degree or 110 degree flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration. Application of the spray at a 45 degree angle forward will result in better spray coverage. Under dense weed/crop canopies, a broadcast rate of 15-20 gallons of water per acre should be used so that thorough spray coverage will be obtained. DO NOT use raindrop nozzles. Boom height should be based on nozzle manufacturer recommendations. See the Spray Drift Management section of the label for additional information on proper application of SURMISE.

Aerial Application

Poor coverage will result in reduced weed control. For optimal weed control apply SURMISE in a minimum of 10 gallons per acre. Apply SURMISE using nozzles and pressures that generate MEDIUM (about 300 to 400 microns) spray droplets category as reported by the nozzle manufacturer and in accordance to ASABE S 572 based upon the selected air speed. Do not use nozzles and pressures that result in COARSE sprays. FINE sprays should also be avoided to minimize spray drift risk. See
Limitations, Restrictions, and Exceptions

FOR USE ON RICE (DRILLED OR DRY SEEDED)

- THOROUGH SPRAY COVERAGE IS VERY IMPORTANT.

- For best results, apply to emerged, young, actively growing weeds. SURMISE is a foliar active material with little or no soil residual activity. Weeds that emerge after application will not be controlled. Weed control may be reduced if application is made when heavy dew, fog and mist/rain are present or when weeds are under stress due to drought, cool temperatures, or extended periods of cloudiness. SURMISE is rainfast 4 hours after application to most weed species. Rainfall within 4 hours after application may necessitate retreatment or reduced weed control may result.

RESTRICTIONS TO THE DIRECTIONS FOR USE ON RICE

- DO NOT apply SURMISE within 70 days of harvesting rice.

- DO NOT plant rotation crops in a field treated with SURMISE within 120 days after the last application of the product with the exception of wheat, barley, buckwheat, millet, oats, rye, sorghum and triticale which may be planted 70 days after the last application of the product. The crops listed on the label may be planted at any time.

- DO NOT apply the product through any type of irrigation system.

- DO NOT use paddy water from a rice field treated with SURMISE for irrigation or as a water source for livestock or for raising crayfish.

- DO NOT add surfactants or crop oils. A silicon based antifoam agent may be added, if needed.

Application Timing for the Southern United States (Arkansas, Louisiana, Mississippi, Missouri, Texas)

- Applications of SURMISE on rice may be made from the 1-leaf stage through the mid-tillering stage of development. SURMISE will have an effect on weeds that are larger than the recommended leaf stage; however, speed of activity and control
may be reduced.

- Rice fields should be as level as possible and free of large clods to obtain uniform germination of rice and grassy weeds and to ensure uniform flood levels. If necessary, fields may be flushed prior to treatment so that the rice and grass/broadleaf weeds are actively growing at the time of treatment. If the rice field is flushed, allow sufficient time for germination of the weed species to occur prior to treatment.

- Apply SURMISE prior to the permanent flood when weeds are in the 1- to 5-leaf stage. A second application is recommended after a new flush of weeds emerge. A second application may be made from 10-14 days after the first application up to the mid-tillering growth stage of the rice. For optimum weed control, apply SURMISE before canopy closure to ensure thorough spray coverage of the weed species.

- When applying SURMISE post flood, lower the water level so that 75% of the weed foliage is exposed. The water level may be brought back to normal level 48 hours after the herbicide application.

**Drilled or Dry Seeded Rice**

Rice fields should be as level as possible and free of large clods to obtain uniform germination of rice and grassy weeds and to ensure uniform flood levels. If necessary, fields may be flushed prior to treatment so that the rice and grass/broadleaf weeds are actively growing at the time of treatment. If the rice field is flushed, allow sufficient time for germination of the weed species to occur prior to treatment.

Apply SURMISE prior to the permanent flood when weeds are in the 1.5-leaf stage. A second application is recommended after a new flush of weeds emerge. A second application may be made from 10-14 days after the first application up to the mid-tillering growth stage of the rice. For optimum weed control, apply SURMISE before canopy closure to ensure thorough spray coverage of the weed species.

- 2 applications can be made at 24 fl. oz. (0.44 lbs. ai/A) with a minimum 10 day retreatment interval

- Minimum paddy depth of 4 inches.
- Minimum 7-day holding period after flooding of the field.

WEEDS:

- In weed populations with mixed species, apply the rates needed for all species present.

- Refer on the label for Maximum Weed Height (Inches)

- SURMISE applied at 20 to 24 fl. oz./A may control or suppress the sedges. Control of sedges may be enhanced by using a second application or tank mixes with other herbicides.

Method

- Broadcast/Foliar Air
- Broadcast/Foliar Ground
- Broadcast/Foliar Air
- Broadcast/Foliar Ground

Pre-Harvest Interval

70 days

Rates

- field_rates 0

Restricted Entry Interval

12 hours

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours with the exception of sweet corn irrigation activities which has a 4 day REI.

Timings

- Apply to emerged, young, actively growing weeds.
- Prior to the permanent flood when weeds are in the 1.5-leaf stage.